

AeSCP-2REVISED.ST25.txt
SEQUENCE LISTING

<110> LAN, Que
KREBS, Kendall C.

<120> STEROL CARRIER PROTEIN-2 FROM THE MOSQUITO, AEDES AEGYPTI

<130> 054030-0056

<150> US 60/465,648

<151> 2003-04-25

<160> 13

<170> PatentIn version 3.3

<210> 1

<211> 333

<212> DNA

<213> Aedes aegypti

<400> 1

atgtctctga agtccgacga agttttcgcc aagatcgcta agcgtctgga gagcatcgac	60
cccgccaaacc gtcaggtcga gcacgtgtac aagttcagaa tcacccaggg tggcaaggtt	120
gtcaagaact gggttatgga tctgaagaac gtcaagctgg tcgagtccga cgatgccgcc	180
gaggccaccc tgaccatgga ggatgacatc atgttcgcca tcggaaccgg tgccctgccc	240
gccaaaggaag ccatggccca ggacaagatg gaagtcgatg gacaagttga gctgatcttc	300
ctgctggagc cattcattgc ctcgctgaag taa	333

<210> 2

<211> 571

<212> DNA

<213> Aedes aegypti

<400> 2

gatcagtttc gagttgtcca cttgaagttc tgttgaaaaa ccaaaccacc ctccaaaatg	60
tctctgaagt ccgacgaagt tttcgccaag atcgctaagc gtctggagag catcgacccc	120
gccaaccgtc aggtcgagca cgtgtacaag ttcagaatca cccagggtgg caaggttgtc	180
aagaactggg ttatggatct gaagaacgtc aagctggtcg agtccgacga tgccgccgag	240
gccaccctga ccatggagga tgacatcatg ttcgccatcg gaaccggtgc cctgccccgcc	300
aaggaagcca tggcccagga caagatggaa gtcgatggac aagttgagct gatcttcctg	360
ctggagccat tcattgcctc gctgaagtaa aatgcgtgac gcggcccttg tgaataccaa	420
tcattgcatg tgcttgctc gtttaatcag agcgaatgtc atgtcatcca aactactgtg	480
ttgtaactta ttattttcct gtatcgcatg ttcggcatca ttaaaacgta ttttgtaaag	540
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa a	571

<210> 3

AeSCP-2REVISED.ST25.txt

<211> 110
 <212> PRT
 <213> Aedes aegypti

<400> 3

Met Ser Leu Lys Ser Asp Glu Val Phe Ala Lys Ile Ala Lys Arg Leu
 1 5 10 15

Glu Ser Ile Asp Pro Ala Asn Arg Gln Val Glu His Val Tyr Lys Phe
 20 25 30

Arg Ile Thr Gln Gly Gly Lys Val Val Lys Asn Trp Val Met Asp Leu
 35 40 45

Lys Asn Val Lys Leu Val Glu Ser Asp Asp Ala Ala Glu Ala Thr Leu
 50 55 60

Thr Met Glu Asp Asp Ile Met Phe Ala Ile Gly Thr Gly Ala Leu Pro
 65 70 75 80

Ala Lys Glu Ala Met Ala Gln Asp Lys Met Glu Val Asp Gly Gln Val
 85 90 95

Glu Leu Ile Phe Leu Leu Glu Pro Phe Ile Ala Ser Leu Lys
 100 105 110

<210> 4
 <211> 123
 <212> PRT
 <213> Anopheles gambiae

<400> 4

Tyr Cys Pro Ser Ala Gln Arg Val Arg Gln Leu Leu Met Ala Leu Lys
 1 5 10 15

Ser Asp Pro Val Phe Glu Arg Ile Ala Lys Arg Leu Glu Ser Ile Asp
 20 25 30

Pro Asn Asn Arg Gln Val Gln Gln Val Tyr Lys Phe Arg Ile Gln Gln
 35 40 45

Asn Gly Thr Val Val Lys Thr Trp Val Leu Asp Leu Lys Ala Val Lys
 50 55 60

Leu Thr Glu Gly Asp Gly Pro Ala Glu Ala Thr Leu Thr Met Glu Asp
 65 70 75 80

Asp Ile Met Phe Ala Ile Gly Thr Gly Ala Met Pro Ala Lys Glu Ala
 85 90 95

AeSCP-2REVISED.ST25.txt

Leu Ala Gln Lys Lys Leu Asp Val Glu Gly Gln Val Glu Leu Ile Phe
 100 105 110

Leu Leu Glu Pro Phe Ile Ala Ser Leu Lys Lys
 115 120

<210> 5
 <211> 123
 <212> PRT
 <213> Rattus norvegicus

<400> 5

Ser Ser Ala Gly Asp Gly Phe Lys Ala Asn Leu Ile Phe Lys Glu Ile
 1 5 10 15

Glu Lys Lys Leu Glu Glu Glu Gly Glu Glu Phe Val Lys Lys Ile Gly
 20 25 30

Gly Ile Phe Ala Phe Lys Val Thr Asp Gly Pro Gly Lys Val Glu Ala
 35 40 45

Thr Trp Val Val Asp Val Lys Asn Gly Lys Gly Ser Val Leu Pro Asp
 50 55 60

Ser Lys Asp Lys Ala Asp Cys Thr Ile Thr Met Ala Asp Ser Asp Leu
 65 70 75 80

Leu Ala Leu Met Thr Gly Lys Met Asn Pro Gln Ser Ala Phe Phe Gln
 85 90 95

Gly Lys Leu Lys Ile Ala Gly Asn Met Gly Leu Ala Met Lys Leu Gln
 100 105 110

Ser Leu Gln Leu Gln Pro Lys Asp Ala Lys Leu
 115 120

<210> 6
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 6

Ser Ser Ala Ser Asp Gly Phe Lys Ala Asn Leu Val Phe Lys Glu Ile
 1 5 10 15

Glu Lys Lys Leu Glu Glu Glu Gly Glu Gln Phe Val Lys Lys Ile Gly
 20 25 30

AeSCP-2REVISED.ST25.txt

Gly Ile Phe Ala Phe Lys Val Thr Lys Gly Pro Gly Lys Val Val Ala
 35 40 45

Thr Trp Val Val Asp Val Lys Asn Gly Lys Gly Ser Val Leu Pro Asn
 50 55 60

Ser Asp Lys Lys Ala Asp Cys Thr Ile Thr Met Ala Asp Ser Asp Phe
 65 70 75 80

Leu Ala Leu Met Thr Gly Lys Met Asn Pro Gln Ser Ala Phe Phe Gln
 85 90 95

Gly Lys Leu Lys Thr Thr Gly Asn Met Gly Leu Ala Met Lys Leu Gln
 100 105 110

Asn Leu Gln Leu Gln Pro Gly Asn Ala Lys Leu
 115 120

<210> 7
 <211> 124
 <212> PRT
 <213> Drosophila melanogaster
 <400> 7

Asp Gly Phe Lys Val Ala Pro Leu Leu Lys Leu Leu Glu Gln Ala Met
 1 5 10 15

Gln Glu Asp Lys Asp Asn Leu Ile Glu Lys Val Arg Ala Ile Tyr Gly
 20 25 30

Phe Lys Val Asn Gln Gly Pro Asn Lys Gln Thr Gly Phe Trp Val Ile
 35 40 45

Asp Ala Lys Gln Gly Lys Gly Lys Ile Ile Phe Asn Gly Thr Gln Lys
 50 55 60

Cys Asp Val Thr Phe Ile Ile Ser Asp Asp Asp Val Phe Glu Leu Leu
 65 70 75 80

Thr Gly Lys Leu Pro Pro Gln Lys Ala Phe Phe Gln Gly Lys Ile Lys
 85 90 95

Ile Gln Gly Asn Met Gly Phe Ala Met Lys Leu Met Asp Leu Gln Asp
 100 105 110

Pro Pro Lys Ala Gly Ser Arg Leu Arg Ser Lys Leu
 115 120

AeSCP-2REVISED.ST25.txt

<210> 8
 <211> 115
 <212> PRT
 <213> Drosophila melanogaster

<400> 8

Met Ser Leu Gln Ser Asp Ala Val Phe Gln Lys Ile Ile Asp Gly Leu
 1 5 10 15

Lys Glu Asn Glu Ala Lys Ala Lys Ala Val Asn Gly Val Phe Leu Tyr
 20 25 30

Lys Ile Thr Lys Asp Gly Asp Val Ala Asp Glu Trp Thr Leu Asp Cys
 35 40 45

Lys Asn Ala Lys Ala Tyr Glu Gly Pro Ala Gln Gly Ile Lys Val Asp
 50 55 60

Thr Thr Leu Thr Val Ala Asp Glu Asp Met Val Asp Ile Ala Leu Gly
 65 70 75 80

Lys Leu Asn Pro Gln Ala Ala Phe Met Lys Gly Lys Leu Lys Ile Ala
 85 90 95

Gly Asn Ile Met Leu Thr Gln Lys Leu Ala Pro Leu Leu Lys Thr Asp
 100 105 110

Ala Lys Leu
 115

<210> 9
 <211> 107
 <212> PRT
 <213> Drosophila melanogaster

<400> 9

Met Lys Ser Asp Glu Ile Ile Glu Lys Ile Arg Asn Lys Leu Lys Glu
 1 5 10 15

Ser Asp Pro Ala Arg Arg Thr Val Val Asn Thr Phe Gln Phe Asn Phe
 20 25 30

Thr Asp Ala Asp Gly Asn Leu Ile Lys Asn Met Ala Met Asp Ile Tyr
 35 40 45

Glu Gly Ser Ala Thr Ser Val Asp Ala Gln Val Thr Ile Ser Asp Glu
 50 55 60

AeSCP-2REVISED.ST25.txt

Asp Phe Tyr Leu Val Gly Thr Lys Gln Lys Thr Phe Gln Glu Val Leu
 65 70 75 80

Gln Gln Glu Asp Ala Lys Ile Asp Gly Asp Glu Glu Ala Ile Asn Lys
 85 90 95

Met Leu Glu Lys Phe Arg Ile Asn Ser Gln Asn
 100 105

<210> 10
 <211> 100
 <212> PRT
 <213> *Caenorhabditis elegans*

<400> 10

Val Ala Ser Leu Ala Met Asp Glu His Leu Val Arg Leu Ile Gly Arg
 1 5 10 15

Val Phe Gln Ile Asn Cys Lys Asp Ile Glu Pro Ile Cys Ile Asp Leu
 20 25 30

Lys His Gly Ser Gly Ser Ala Tyr Lys Gly Thr Ser Leu Asn Pro Asp
 35 40 45

Val Val Phe Glu Thr Ser Leu Glu Val Phe Leu Lys Ile Leu Thr Lys
 50 55 60

Glu Val Ser Pro Val Thr Val Tyr Ala Asn Gly Asn Leu Lys Val Lys
 65 70 75 80

Gly Ser Ile Gln Asp Ala Met Gln Leu Lys His Leu Val Glu Arg Met
 85 90 95

Ser Asp Trp Leu
 100

<210> 11
 <211> 128
 <212> PRT
 <213> *Saccharomyces cerevisiae*

<400> 11

Met Ser Val Glu Val Asp Gly Phe Asn Ala Ser Pro Leu Phe Lys Glu
 1 5 10 15

Leu Asn Glu Gly Leu Ala Lys Asp Ala Asp Ala Gln Glu Ala Val Lys
 20 25 30

Ala Val Asn Ala Ile Ile Val Ile Thr Leu Lys Asn Lys Glu Gly Lys
 Page 6

AeSCP-2REVISED.ST25.txt
40 45

35
Glu Gln Ser Trp Val Leu Asp Leu Lys Lys Ala Gly Thr Leu Ala Lys
50 55 60

Val Asp Gly Ala Val Pro Lys Gly Asp Val Gln Leu Phe Leu Lys Asp
65 70 75 80

Val Asp Phe Val Lys Leu Ala Asn Asn Lys Val Asn Gly Gln Glu Leu
85 90 95

Glu Phe Met Asn Gly Lys Leu Lys Val Lys Gly Asn Met Met Lys Ala
100 105 110

Thr Ala Ile Glu Ser Val Phe Lys Lys Leu Asp Pro Arg Pro Lys Leu
115 120 125

<210> 12
<211> 18
<212> DNA
<213> Aedes aegypti

<400> 12
gtcggacttc gagagaca

18

<210> 13
<211> 14
<212> DNA
<213> Aedes aegypti

<400> 13
ttacttcagc gagg

14